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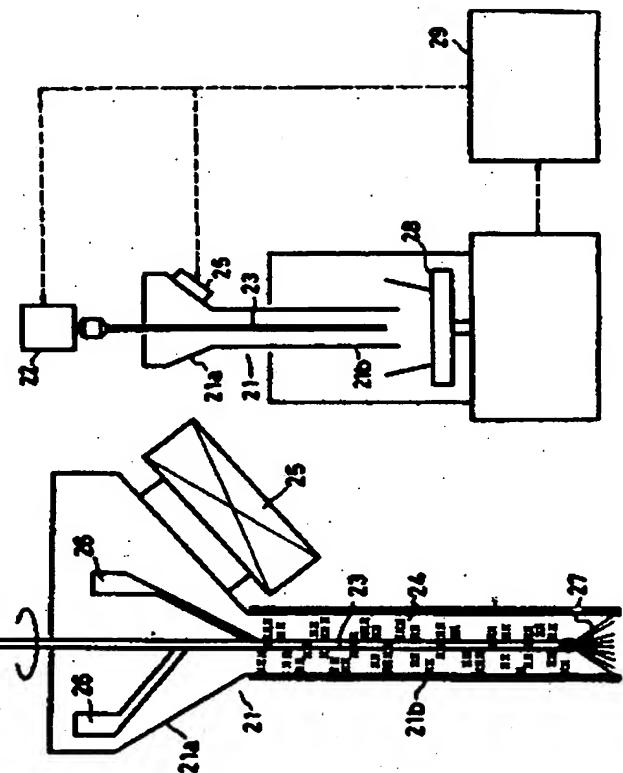
APPLICATION DATE : 08-10-81
 APPLICATION NUMBER : 56160472

APPLICANT : NIPPON KOKAN KK < NKK >;

INVENTOR : SAITO KATSUE;

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TITLE : MEASURING DEVICE FOR DELIVERY OF POWDER



ABSTRACT : PURPOSE: To measure the delivery rate of powder in a short time with good accuracy by calculating the difference between the actually measured value of a measuring device which measures the mass of the powder delivered from a hopper and a set value which is set beforehand, and controlling the revolutions of a motor which drives fur brushes in accordance with the obtained value.

CONSTITUTION: A revolving shaft 23 which is driven by a rotating and driving motor 22 is disposed in a powder hopper 21, and spiral fur brushes 24 are mounted thereto. The brushes 24 are provided spirally so as to move along the inside wall in the cylindrical lower part 21b of the hopper 21, and are rotated spirally by the revolutions of the shaft 23, thereby agitating the powder and delivering the same from the hopper 21. The mass of the powder delivered from the hopper 21 is measured with a measuring device 28. The detection signal for the actually measured value of the device 28 is inputted to an arithmetic controller 29. The controller 29 calculates the difference between the detection signal for the actually measured value and the signal of the set value which is set beforehand. In accordance with the calculated value, said controller controls the revolution of the motor 22 and the operation of a vibrator 25.

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